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Irrigation from Artesian Wells.

Among the most interesting investigations now being conducted by our Government is that into the presence of water underneath the Western plains. It is a unique field of inquiry, and its results from both a scientific and a practical standpoint are likely to be of considerable importance. It was prompted by the query whether it were not possible to reclaim large sections of arid land by means of water from artesian wells, and, while other interesting facts have been developed, that is the one most emphasized in the lengthy Government report now ready for distribution. The volume contains 400 pages, and has returns from the Dakotas, Nebraska, Kansas, Texas, New Mexico, Neyada, Utah, Colorado and Wyoming. In Dakota'a large basin has been found to exist about 400 miles long by 40 or 50 miles in width along the James River, and has been given its name. Its eastern boundary is marked by the watershed between the Rad river of the North and the James, and it extends thence 50 miles or more west. It is pronounced the largest and strongest artesian basin yet discovered in this country. The water is found in a great bed of white eand, which is thrown out in large quantities by the wells where they are allowed to flow freely. In Kansas there are large areas where the water does not rise to the surface, although an abundant supply is obtainable by pumping. The same is true of many sections in Texas. . Colorado, and other States. In all such areas it is suggested that the wind shall be utilized to raise the water, and the use of the windmill is recommended. This is doubtless in a measure practical. As Engincer Von Deist, of Colorado, remarks: "The plains of eastern Col orado and New Mexico could be dotted over with windmills to keep the water on the land just as the 'polders' in Holland are dotted with windmills to keep the water from the land." It is manifest, however, that sections where the water for ir- in Perez' saloon, East Tempe, at rigation must be raised in this way an early hour Sunday morning. will only be taken up when the "Doc" Dines, one of Daggs Bros. pressure of population is vastly sheep herders, and a man named greater than at the present time. Wall were asleep in chairs, when One of the most remarkable devel- suddenly the report of a pistol staropments noted in the report is that | tled the bystanders and Wall rolled of the San Luis Valley, in Colorado. out of his chair with a shot in hi Within the past year 2,000 flowing back. The shot came it is supposed wells have been sunk within an area from Dine's pistol, but whether i of 16,000 square miles-two-fifths was accidental or not no one seems that of Ohio-water being reached to know. There are several stories at depths of from 60 to 1,000 feet, affoat; something definite will prodepending on whether the well is bably be developed at the examinanear the edge of the basin or its cen- tion of Dines on Monday. He has ter. About 12,000 neres have been irrigated during the past season 000 bond. Wall is in a critical confrom these wells, and no diminution dition and no hope is expressed for in the flow has been perceived. This his recovery.-Tempe News. is in some respects an ideal basin, surrounded, as it is, by lofty mountains, whose sides next the basin are precipitous and where the pitch of the strata is such that vast quantities of water are carried down into the valley underground. In Utah 2,000 wells have been sunk in the Salt and Utah lakes region. About 10,000 acres of arid land has been reclaimed by the water from these wells, and no diminution in pressure has yet occurred. Neyada has 67 flowing wells, and they have proven so valuable that the board of reclamation commissioners of that State claim that not less than 6,000 000 acres of now arid land can be rendered fertile by artesian wells-in other words, an area onefourth that of Ohio. This is doubtless exaggerated somewhat, but it

Cleveland Leader.

Why Railway Building is Dull.

The returns of gross and net earnwith the country, are likely to wait lose and easily dug, and in no time house, lie and the interests of the stock- day. holders. Cut-throat wars will not Bernabe Britchta was the first man furnish living profits for the stock- to receive the news of this strange holders, and exorbitant local rates discovery, and having gone out will not tend to increase the friend- there vesterday, he kindly gave the liness of the public toward the rail- above facts to the Star reporter. ays.—Philadelphia Times.

A mysterious shooting occurred been arrested and is held under \$1,-

A colored gentleman has been rounded up upon the charge of selling whiskey, and is now here to inswer to the United States authorities for the commission of the offence of affording San Carlos Agency Indians the opportunity of becoming "rip staving drunk." Is it any wonder that "the ardent" is ed by Postoffice Inspector Sullivan, tory when Indians pay more than Mo. The field of the gang's operathe Dutchman's one per cent for it? tions extended from Missouri to And in order that the supply shall not be cut off the vendee seldom blows on the vendor. The risk attending its introduction has raised the price from \$3 to \$5 per bottle. -Silver Belt,

and Gallardo arrested a Mexican ment, and the howl of the coyote by the name of Ventura Sota on in place of the locomotive whistle. seems likely that in both Utah and the charge of having robbed Ah This is western enterprise, pluck even better than than on leaving Nevada considerable areas can be Yum, a Chinese vegetable peddler, and energy.-Eddy Argus. readily reclaimed in this way, as of \$140.45, a pocket knife, revolver the physical configuration promises and three sacks of tobaco. A much for the idea. In Texas some search of the hut revealed the pis- that 75 per cent of the throat dis- two days of complete rest. There 700 flowing wells are reported, but tol but the money could not be ease of that city among children are is no lack of water along the route, this number is scattered over such found. He was tried before Judge due to ill-ventilated school rooms, thanks to the late rains. Mr. Land a vast area that few deductions can Jenkins and sentenced to the coun- This is a pretty heavy school tax, intended following the railroad, as be made from the facts observed. ty jail to await the action of the and is worth figuring up in all large this will be shorter than via the or- total capitalization being upwards hours. They will cost \$2,000,000 grand jury.—Tempe News.

What is It?

Antonio Preciado, a noted Mexiings of the railways during the past can prospector, who is constantly able presence of mind displayed by year show that other influences are on the look out for mines that have McJunkin's tame rattlesnake?" askat work beside too great existing been worked by what are termed ed the snake editor. mileage to check the increase of the pre-historic people of the new railways. The chief of these Santa Cruz valley, made a discovis the difficulty in maintaining rates ery near this city that seems hard at a profitable standard. The Fi- to determine what it is. He had nancial Chronicle in a statement been prospecting in the Tucson accidently in such a way that the covering the gross and net earnings mountains for a number of days, reptile could not get away. Being of one hundred and sixteen roads, and some two weeks ago, on his shows an increase in gross earnings way home, he came across on the of \$14,000,000 over 1889, while the hill side, some fifty steps from the increase in net earnings is but \$8,- end of Stevens avenue a singular 000,000, a gain in gross earnings of looking place which at once atupward of 8 per cent and in net tracted his attention. He saw on earnings of only 4 per cent. In close inspection, that he was standother words, the natural growth in ing on top of what was at one time business has been large, as was to a circular shaft, between fifteen and be expected, but the interminable twenty feet in diameter, and walled ing in the same locality and was for the building of a railroad from 000; Pittsburgh, \$52,600,000; St. railway wars have reduced rates be. with stone and mortar. He struck low the profitable point. If the his pick and then his crow bar, inroads already built are compelled to the center of the walled place to do a constantly mereasing busi- and found that his pick went down ness at a constantly decreasing rate to the hilt, and his crow bar almost had been kind to a year before. operation before the bonds are pay-year wers \$56,057,000 in value; in either from too much competition disappeared. It was growing late The snake seemed very glad to see able,-Tucson Citizen. or because of unfriendly State or and marking the spot, he came on him, and followed at his heels like National legislation, investors will to town, and that night he dreamed a dog. McJunkin was struck by be slow to engage in new railway of untold treasures that he had enterprises, especially as new rail- found in that place. Early the next ways will tend to still further de- morning, he went back, taking with ly devoid of that quality, and he crease profits by increasing compe- him his pick and shovel. He began took the snake home with him. Aftition. As things look at present to dig, and soon found that a few ter extracting its fangs the snake the railways, instead of growing up inches from the top the dirt was awhile for the country to grow up had cleared away about two feet of with the railroads. This will not dirt. He discovered, further, in prove an unmixed evil. The United digging, that a pair of stairs built safe was standing. Going down to States are already better supplied out of hewn stone, led down the with railways than any other coun- shaft, or walled place, and up to try in the world. Railway manage- yesterday, though he had gone down gagged him. Mrs. McJunkin folment is in a very chaotic state, how- some thirty feet, he had not reached ever, and while new railway enter- the bottom, and the stairs continued prises wait, perhaps the managers to lead down. The work has been of existing railways may learn how carried on by Preciado alone for the to carry on their lines with due re- last two weeks, and had never told gard both for the rights of the pub- any one of his discovery till yester-

> Now, what is it? Is it the way in to one of those pre-historic mines, or is it a furnace? Certainly mine, for in digging several pieces of quartz rock and iron ore have been found, also indications of a dirft leading towards the center of the mountain, which indications would only be found in a mine that

> The burglars who robbed the post office here on the morning of January 25, 1890, have been placed behind the bars. The gang composed of W. R. Davis, also called 'Kid" Davis, and R. S. Morsey, are New Mexico, and from Kansas to Texas .- Albuquerque Citizen.

With a railroad and telegraph office one fairly revels in modern civilization. Yet eighteen months ago we heard the click of the revol-On Monday Constables Elder ver instead of that of the instru-

American cities,—Boston Globe.

The Prize Snake Story of the Year.

"Did you ever hear of the remark-"No," replied the horse editor.

"McJunkin was out hunting one day and he came across a rattlesnake on which a rock had fallen a humane sort of a chap, he lifted the rock and released the snake, which expressed its gratitude in a few joyful rattles and then wriggled

"Is that where the presence of mind came in?"

this remarkable case of gratitude in a creature supposed to be totalwas permitted the freedom of the

"One night McJunkin heard a noid in the room below, where his see what the trouble was, he found burglars at work, but they pomptly lowed her husband down stairs, and wager that he could not stand a

crawled out. It saw at a glance had fallen each drop seemed to toward the open window, it climbed | nal. a chair, thrust its tail out into the that the police arrived before the burglars could get away, and both were captured."---Pittsburgh Chron-

The Mount Morgan gold mine, Australia, paid dividends of \$5,-363,150 in 1889. This is the greatest gold mine in the world. It was bad been worked. If this strange bought a few years ago for \$3115 years hence, as the bill proposes. discovery proves to be an old mine, and is now valued at \$73,000,000and rich, and all within a stone's in fact \$90,000,000 have been rethrow of the city, it may lead to fused for the mine and works. The the discovery of others, and thus machinery and plant cost nearly the "old pueblo" may become the \$5,000,000. During the year ending leading mining center of the "Land November 30, 1889, 75,415 tons of of Sunshine and Silver."-Tucson raw ore returned 223,522 ounces of gold, equal to 4 ounces 6 penney weights 4 grains per ton for the total ore raised .- Mining and Scien-

The lion is eaten by some African races, but its flesh is held in small esteem, The Zulus find carrion so in jail at Denton, Tex., Ed McIn- much to their liking, that, accordtyre, in jail at Paola, Kansas, and ing to the late Bishop Colenso, they Thomas Downey, in jail at Fort apply to food peopled by large col-Worth, Texas, Mrs. Nellie Davis, onies of larvæ the expressive word wife of W. R. Davis, was also arrest- "uborni," signifying in their uncouth jargon "great happiness." muggled in upon forbidden terri- of the St Louis Division, at Sedalia, David Livingstone, that keen and accurate observer, reminds us that the aboriginal Australians and Hottentots prefer the intestines of animals "It is curious," he says "that this is the part which animals always begin with, and it is the first choice of our men."-Science.

> Parties lately in from Maricopa report that the herd of 2,000 head of cattle being driven to California by Mr. Land are in fine condition Tucson two weeks ago yesterday. The stock, as will be seen, have The New York physicians testify been driven slowly, have been given Ex. dinary route.-Citizen.

H. W. Brizzee, of Mesa City, doubtful if this weight of dressed unfavorable one." meat from a cow was ever equaled. -Phœnix Republican.

and numerously signed, requesting 148,000; New York, \$172,000,000; startled by hearing the peculiar Calabasas to Tucson. The projec- Louis, \$50,800,000; San Francisco, noise of the rattlesnake. Turning tors of the road are Col. Sykes and \$35,300,000. Besides, Philadelphia he found one of the reptiles follow- Capt, Fitzgerald. It is stipulated is a saving city and keeps what she ing him, and recognized the one he that the road is to be in running makes. Her foreign imports last

The Arizona Lumber and Timber Co., mean business, judging from the number of logs they have collected on their new mill site, some five or six miles east of town. They will put in their machinery when outstanding on the 31st ult. was in the switch is built from the line of exact figures \$175,490,232. This repthe A. & P. road out to their new resented a decrease of \$1,665,307 location. This will mak five mills for the month, and of \$79,003,340 the company owns within a radius for the twelve months ending Janof 12 miles of Flagstaff.-Flagstaff uary 31st. The portion of the cir-Democrat.

A stalwart young man at Leavenworth, Kan., recently accepted a rushed to the window to give the quart of water dropped into his of \$337.670 for the year.-Bradalarm. She had opened it about open hand, drop by drop, from a street's. four inches, when she, too, was height of three feet. Before 500 seized and gagged by the burglars. drops had fallen into his hand he "About this time the snake, which almost cried with pain and said he had been asleep under the fire, had enough. After a little water that the man who saved its life was crush his hand, and a blister in the in dire distress. Wriggling rapidly center was the result.-Boston Jour-

street and made such a loud rattle the removal of the capital from Mayer, president of the Bultimore Phenix to Tucson will be intro- and Ohio Railroad, to build large duced in a few days. The Prospector has been favored with a perusal of it, and with the exception of the date for the removal to take place it indorses the bill most heartily. We would wish to see the change made at once and not two

Cattlemen in this section will be interested to know that papers have been filed at Santa Fe incorporating the Deming Cattle Pen company, with a capital of \$5000. The Headlight says that it is the purpose of the company to sink wells tions of the progress of invention. and to put up extensive catlle pens It is a crystilization of the results out on the ranges about Deming, to of applied science. It embraces the facilitate the holding of stock com- latest triumphs in electric science, ing in there for shipment .- Pros- steam engineering, and mechanic pector.

Ex-Sheriff Slaughter returned esterday from San Bernardino which killed Smith passed through leopard, the skin of which was sold the Guadalupe mountains on their to a gentleman of Cleveland, O., way to Sonora.—Tombstone Pros- for \$35.—Globe Silver Belt.

plan in past years of issuing war- nia. If the market is not up when rants against the treasury in pay- he arrives at Bakersfield, he will ment for the expenses of fighting hold them there on pasture. Mr. the Apaches when an outbreak oc- Kellner has now on pasture here curred. These warrants were drawn about the same number, which he in tayor of citizens who furnished | will ship in a short time.-Phænix horses, arms or men, and amount Republican. at the present time to \$600,000. The warrants will be paid when a certain surplus is in the treasury .-

hundred and twenty new companies the trip between Queenstown and connected with electrical engineering were registered in England, the of \$65,000,000.—Electrical Review. aptece.

Based on official statements, lately sold a Durham grade cow Kuhlow's (Berlin) gives the followthat is a bright example of what ing: "During 1890 there have been alfalfa feeding is capable. The an- within the German Empire 5,908 imal was five years old, had been business failures, as compared with reared by Mr. Brizzee and had nev- 5,206 in 1889 5,149 in 1888, 4,804 er been fed on anything but alfalfa, in 1887, 4,753, in 1886, 4,632 in 1885 being taken from a closely grazed 4,332 in 1884, 4,607 in 1883, 4,782, pasture to the butcher. As live in 1882, 5,002 in 1881, and 5,358 in weight the cow tipped the scales at 1880. The year 1890 has therefore 1770 pounds; dressed, the four been, since the introduction of the quarters weighed 1010 pounds. The joint regulation for failures in the meat was of superior quality. It is German Empire, by far the most

Philadelphia maintains her rank as the greatest manufacturing city A petition is now being circulated of this country, producing \$178,-"No; I am coming to that. A the board of supervisors to issue Chicago comes third with \$68,000 .year or so after McJunkin was hunt- bonds to the amount of \$250,000 000; then Brooklyn with \$32,000,-1870 they were but one-fourth of this vast amount .- Rand-McNally Banker's Monthly.

> The National bank circulation outstanding has now declined to a little over \$175,000,000. The amount culation based on the deposit of United States bonds amounted to \$125,859,360, an increase of \$198,-999 for the month, but a decrease

At the Baltimore Copper Works experiments have been carried on for many months to test a new method of copper refining by means of electricity. These tests have been so satisfactory that a \$500,000 company has been organized by the Messrs. Keysers, of the Baltimore Says the Prospector: A bill for Copper Works, and Mr. Chas. F. works for electrically sme'ting copper. - Baltimore Manufacturer's Record.

> The most expensive thermometer in this country is in use at the John Hopkins University. It is known as Professor Rowland's thermometer, and is valued at \$10,000. It is an absolutely perfect instrument. and the graduations on the glass are so fine that it is necessary to use a microscope to read them.

The metropolitun newspaper of to-day is one of the best illustraarts, and it employs the best brain power of the time.-Inventive Age.

Phil Askins, the noted lion huntranch, where he has been for three er, although living within 60 miles weeks, gathering cattle on his range of Globe, has not ventured within preparatory to making a shipment its boundaries since it became a from Deming east. He states that town until the present week. Withthere are Indians down that way, in that time, 15 years, he has killed but no soldiers. The little band | 145 monarchs of the forest and one

E. F. Kellner has shipped twen-In New Mexico they have had a ty-one cars of beef steers to Califor-

The Cunard Steamship Company has contracted for two fast steamers of 12,000 tons each. Their speed is to be 22 knots an hour, During 1890 more than one which will enable them to make